



Created: 1 day, 0 hours after earthquake

**PAGER** 

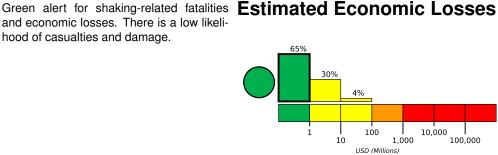
Version 4

## **M 6.3, 1 km SSW of Calatagan, Philippines**Origin Time: 2020-12-24 23:43:42 UTC (Fri 07:43:42 local) Location: 13.8178° N 120.6238° E Depth: 109.0 km

FOR TSUNAMI INFORMATION, SEE: tsunami.gov

**Estimated Fatalities** 10,000 1,000

and economic losses. There is a low likelihood of casualties and damage.



#### **Estimated Population Exposed to Earthquake Shaking**

ESTIMATED POPULATION EXPOSURE (k=x1000)		_*	12,618k*	40,974k	3,283k	12k	0	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		I	11-111	IV	V	VI	VII	VIII	IX	X+
PERCEIVED	SHAKING	Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

<sup>\*</sup>Estimated exposure only includes population within the map area.

119.2°E

#### Population Exposure

14.0°N

12.2°N

population per 1 sq. km from Landscan Structures 5000

122.8°E

Overall, the population in this region resides in structures that are a mix of vulnerable and earthquake resistant construction. The predominant vulnerable building types are unknown/miscellaneous types and heavy wood frame construction.

# 15.8°N

inamalayan

**117**1.0

#### **Historical Earthquakes**

Date	Dist.	Mag.	мах	Shaking
(UTC)	(km)		MMI(#)	Deaths
1977-03-18	370	7.2	VII(520k)	1
1999-12-11	234	7.2	VIII(17k)	1
1990-07-16	220	7.7	IX(893k)	2k

Recent earthquakes in this area have caused secondary hazards such as landslides and liquefaction that might have contributed to losses.

### **Selected City Exposure**

from GeoNames.org

MMI	City	Population
VI	Calatagan	16k
VI	Balitoc	3k
٧	Sabang	3k
٧	Lucsuhin	4k
٧	Gulod	3k
٧	Biga	3k
IV	Calamba	317k
IV	San Fernando	251k
IV	Manila	1,600k
Ш	Baguio	273k
Ш	San Fernando	83k

bold cities appear on map.

(k = x1000)

PAGER content is automatically generated, and only considers losses due to structural damage. Limitations of input data, shaking estimates, and loss models may add uncertainty.